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**Notice of Allowability**

Application No.

10/702,455

Applicant(s)

YAMAGUCHI, KENJI

Examiner

Art Unit

Russell Frejd

2128

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received 5 June 2007.
2. ☒ The allowed claim(s) is/are 7-10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

*Russell Frejd*  
**RUSSELL FREJD**  
**PRIMARY EXAMINER**

In re Application of: Yamaguchi

***Allowance of Application # 10/702,455***

1. The following communication is in response to applicant's amendment received 5-June-2007. Claims 7-10 of application 10/702,455, filed on 7-November-2003, are pending in the application. This application is a DIV of 10/093933, filed on 11-March-2002, now USP 6,727,724; which is a CON of 09/714148, filed on 17-November-2000, now USP 6,373,274, which is a CON of 09/249139, filed on 12-February-1999, now USP 6,169,415. Claims 1-6 and 11-19 are canceled

***Examiner's Amendment***

2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee. Authorization for this Examiner's Amendment was given by Surinder Sachar (Reg. No. 34,423) on 21-June-2007.

**2.1 In the Claims:**

claim 7	line 3	Change "preparing" to --forming--.
	line 10	Change "said second transistors" to --said second transistor--.
	line 25	Change "and (ii) determining" to --and determining--.
claim 9	line 4	Change "range is employed" to --range and employed--.

**2.2 In the Specification:**

In re Application of: Yamaguchi

page 2          lines 3-4          Change "Chia method" to --the Chia method--. (2 times)

***Reasons for Allowance***

3.          The following is an Examiner's Statement of Reasons for the indication of allowable subject matter.

3.1          The instant application is directed to a non-obvious improvement over the invention described in USP 6,407,573, which discloses a device for evaluating a characteristic of an insulated gate transistor which extracts the effective channel length and the series resistance of the insulated gate transistor.

3.2          The improvement of the present invention comprises a method of characteristic evaluation for insulated gate type transistors, wherein steps are performed for: forming at least two insulated gate type resistors; extracting a threshold voltage; and extracting a virtual point from a characteristic curve exhibiting a relationship between the mask channel widths of the transistors and the source-drain conductance; in order to arrive at the determining of a difference between the mask channel width and an effective channel width that is based on a determined true threshold voltage. Furthermore, claim 7 defines: employing a value of an X intercept of the first characteristic curve as the second estimated value; repeating step c) while varying the first estimated value; and finding an optimum first estimated value based on the first and second estimated values. These patentable distinctions are included in independent claim, no. 7.

In re Application of: Yamaguchi

3.3 The art of record, either individually or in combination, fails to teach, suggest, or render obvious the present characteristic evaluation method for insulated gate type transistors, having the corresponding structure which is disclosed in the specification and equivalents thereof at least at page 17, line 1 through page 52, line 16, and Figures 1-29. In view of the foregoing, the claims of the present application are found to be patentable over the prior art.

### ***Response Guidelines***

4. Any comments considered necessary by applicant **MUST** be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons for Allowance".

#### **4.1 Any response to the Examiner in regard to this allowance should be**

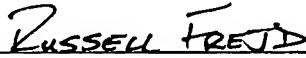
**directed to:** Russell Frejd, telephone number (571) 272-3779, Monday-Friday from 0530 to 1400 ET, or the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100 Group Receptionist (571) 272-2100.

**mailed to:** Commissioner of Patents and Trademarks  
P.O. Box 1450, Alexandria, VA 22313-1450

**or faxed to:** (571) 273-8300

*Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.*

Date: 23-June-2007

  
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RUSSELL FREJD  
PRIMARY EXAMINER